

## Recent applications of the statistical approach of reaction dynamics

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The state and spatial distributions of the products of elementary gas-phase processes are among the most finely tuned pieces of information about chemical reactivity. Predicting and understanding the shape of these distributions is therefore a major goal of theoretical chemistry.

In the last decades, the statistical approach has been widely developed and applied to rationalize the dynamics of complex forming chemical reactions. After reviewing the main assumptions, I will present some examples highlighting its validity and interpretative power within the framework of atom-diatom chemical reactions.